

ANALYTICAL REPORT

Job Number: 460-42952-1

Job Description: Dow Philly Plant

For:
URS Corporation
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Suite 300
Fort Washington, PA 19034
Attention: Mr. Geoff Arbogast



Approved for release.
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08/14/2012

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CASE NARRATIVE

Client: URS Corporation

Project: Dow Philly Plant

Report Number: 460-42952-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/30/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.1 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TCLP METALS

Samples 460-42952-1 through 460-42952-3 were analyzed for TCLP metals in accordance with EPA SW-846 Methods 1311/ 6010B. The samples were leached on 08/02/2012, prepared on 08/03/2012 and analyzed on 08/04/2012.

Lead was detected in method blank LB 460-122371/1-B at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

As a standard practice all TCLP samples are diluted 5X prior to analysis. Further dilutions may be required dependent upon analyte levels in the samples. Refer to the analytical results forms for dilutions.

Samples 460-42952-1(100X) and 460-42952-3(100X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the TCLP metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS

Samples 460-42952-1 through 460-42952-3 were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 08/09/2012 and 08/10/2012.

As a standard practice all soil samples and related QC samples (i.e., MB, LCS, Dup, MS, SD) are diluted 2X-4X prior to analysis. Further dilutions may be required dependent upon analyte levels in the samples. Refer to the analytical results forms for dilutions.

Samples 460-42952-1(50X), 460-42952-2(30X) and 460-42952-3(20X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 460-42952-1 through 460-42952-3 were analyzed for percent solids in accordance with D2974-87 Modified by ASTM. The samples were analyzed on 08/01/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 460-42952-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-42952-1	SB 163-J1	Solid	07/18/2012 1445	07/30/2012 1950
460-42952-2	SB 159-B1	Solid	07/18/2012 1450	07/30/2012 1950
460-42952-3	SB 147-AG1	Solid	07/18/2012 1500	07/30/2012 1950

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 460-42952-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-42952-1						
Arsenic	SB 163-J1	56.6		14.8	mg/Kg	6010B
Lead		32400		14.8	mg/Kg	6010B
Percent Moisture		20.4		1.0	%	Moisture
Percent Solids		79.6		1.0	%	Moisture
<i>TCLP</i>						
Lead		303000		500	ug/L	6010B
460-42952-2						
Arsenic	SB 159-B1	905		8.7	mg/Kg	6010B
Lead		13200		8.7	mg/Kg	6010B
Percent Moisture		21.3		1.0	%	Moisture
Percent Solids		78.7		1.0	%	Moisture
<i>TCLP</i>						
Arsenic		47.7		25.0	ug/L	6010B
Lead		3090		25.0	ug/L	6010B
460-42952-3						
Arsenic	SB 147-AG1	61.1		5.8	mg/Kg	6010B
Lead		7690		5.8	mg/Kg	6010B
Percent Moisture		20.2		1.0	%	Moisture
Percent Solids		79.8		1.0	%	Moisture
<i>TCLP</i>						
Lead		174000		500	ug/L	6010B

METHOD SUMMARY

Client: URS Corporation

Job Number: 460-42952-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL EDI	SW846 6010B	
Preparation, Metals	TAL EDI		SW846 3050B
Metals (ICP)	TAL EDI	SW846 6010B	
TCLP Extraction	TAL EDI		SW846 1311
Preparation, Total Metals	TAL EDI		SW846 3010A
Percent Moisture	TAL EDI	EPA Moisture	

Lab References:

TAL EDI = TestAmerica Edison

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 460-42952-1

Method	Analyst	Analyst ID
SW846 6010B	Chang, Churn Der	CDC
SW846 6010B	Huang, Yixin	YH
EPA Moisture	Armbruster, Chris	CHA

Analytical Data

Client: URS Corporation

Job Number: 460-42952-1

Client Sample ID: SB 163-J1

Lab Sample ID: 460-42952-1

Date Sampled: 07/18/2012 1445

Client Matrix: Solid

% Moisture: 20.4

Date Received: 07/30/2012 1950

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-123318	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	50			Initial Weight/Volume:	1.06 g
Analysis Date:	08/09/2012 1633			Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		56.6		13.9	14.8
Lead		32400		12.7	14.8

6010B Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	460-122616	Instrument ID:	ICP4
Prep Method:	3010A	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122371	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0515			Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 1041				
Leach Date:	08/02/2012 1730				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Arsenic		18.6	U	18.6	25.0

Analysis Method:	6010B	Analysis Batch:	460-122646	Instrument ID:	ICP4
Prep Method:	3010A	Prep Batch:	460-122432	Lab File ID:	122559.asc
Dilution:	100	Leach Batch:	460-122371	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 1625			Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 1041				
Leach Date:	08/02/2012 1730				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Lead		303000		401	500

Analytical Data

Client: URS Corporation

Job Number: 460-42952-1

Client Sample ID: **SB 159-B1**

Lab Sample ID: 460-42952-2

Date Sampled: 07/18/2012 1450

Client Matrix: Solid

% Moisture: 21.3

Date Received: 07/30/2012 1950

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-123318	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	30			Initial Weight/Volume:	1.09 g
Analysis Date:	08/09/2012 1636			Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		905		8.2	8.7
Lead		13200		7.5	8.7

6010B Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	460-122616	Instrument ID:	ICP4
Prep Method:	3010A	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122371	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0518			Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 1041				
Leach Date:	08/02/2012 1730				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Arsenic		47.7		18.6	25.0
Lead		3090		20.1	25.0

Analytical Data

Client: URS Corporation

Job Number: 460-42952-1

Client Sample ID: SB 147-AG1Lab Sample ID: 460-42952-3
Client Matrix: Solid

% Moisture: 20.2

Date Sampled: 07/18/2012 1500
Date Received: 07/30/2012 1950**6010B Metals (ICP)**

Analysis Method:	6010B	Analysis Batch:	460-123507	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	20			Initial Weight/Volume:	1.08 g
Analysis Date:	08/10/2012 1322			Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		61.1		5.5	5.8
Lead		7690		5.0	5.8

6010B Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	460-122616	Instrument ID:	ICP4
Prep Method:	3010A	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122371	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0522			Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 1041				
Leach Date:	08/02/2012 1730				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Arsenic		18.6	U	18.6	25.0

Analysis Method:	6010B	Analysis Batch:	460-122646	Instrument ID:	ICP4
Prep Method:	3010A	Prep Batch:	460-122432	Lab File ID:	122559.asc
Dilution:	100	Leach Batch:	460-122371	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 1628			Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 1041				
Leach Date:	08/02/2012 1730				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Lead		174000		401	500

Analytical Data

Client: URS Corporation

Job Number: 460-42952-1

General Chemistry**Client Sample ID:** SB 163-J1

Lab Sample ID: 460-42952-1

Date Sampled: 07/18/2012 1445

Client Matrix: Solid

Date Received: 07/30/2012 1950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-122163		Analysis Date: 08/01/2012 1442				DryWt Corrected: N
Percent Solids	79.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-122163		Analysis Date: 08/01/2012 1442				DryWt Corrected: N

Analytical Data

Client: URS Corporation

Job Number: 460-42952-1

General Chemistry**Client Sample ID:** SB 159-B1

Lab Sample ID: 460-42952-2

Date Sampled: 07/18/2012 1450

Client Matrix: Solid

Date Received: 07/30/2012 1950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-122163		Analysis Date: 08/01/2012 1442				DryWt Corrected: N
Percent Solids	78.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-122163		Analysis Date: 08/01/2012 1442				DryWt Corrected: N

Analytical Data

Client: URS Corporation

Job Number: 460-42952-1

General Chemistry**Client Sample ID:** SB 147-AG1

Lab Sample ID: 460-42952-3

Date Sampled: 07/18/2012 1500

Client Matrix: Solid

Date Received: 07/30/2012 1950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-122175		Analysis Date: 08/01/2012 1554				DryWt Corrected: N
Percent Solids	79.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-122175		Analysis Date: 08/01/2012 1554				DryWt Corrected: N

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Method Blank - Batch: 460-122432**Method: 6010B****Preparation: 3010A**

Lab Sample ID:	MB 460-122432/1-A	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Water	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0256	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	3.7	U	3.7	5.0
Lead	4.0	U	4.0	5.0

TCLP SPLPE Leachate Blank - Batch: 460-122432**Method: 6010B****Preparation: 3010A****TCLP**

Lab Sample ID:	LB 460-122189/1-D ^5	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122189	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0507	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	08/01/2012 1730				

Analyte	Result	Qual	MDL	RL
Arsenic	18.6	U	18.6	25.0
Lead	20.1	U	20.1	25.0

TCLP SPLPE Leachate Blank - Batch: 460-122432**Method: 6010B****Preparation: 3010A****TCLP**

Lab Sample ID:	LB 460-122371/1-B ^5	Analysis Batch:	460-122646	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-122432	Lab File ID:	122559.asc
Dilution:	5.0	Leach Batch:	460-122371	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 1323	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 1041				
Leach Date:	08/02/2012 1730				

Analyte	Result	Qual	MDL	RL
Arsenic	18.6	U	18.6	25.0
Lead	20.25	J	20.1	25.0

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Lab Control Sample - Batch: 460-122432

Method: 6010B

Preparation: 3010A

Lab Sample ID:	LCS 460-122432/2-A	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Water	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0300	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	5000	4829	97	80 - 120	
Lead	5000	5439	109	80 - 120	

Matrix Spike - Batch: 460-122432

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID:	460-42910-A-3-J MS ^5	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122189	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0322	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	08/01/2012 1730				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	18.6	U	5000	5065	101	75 - 125
Lead	22.9	J	5000	5490	109	75 - 125

Post Digestion Spike - Batch: 460-122432

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID:	460-42910-A-3-H PDS	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122189	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0325	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	08/01/2012 1730				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	18.6	U	25000	23650	95	75 - 125
Lead	22.9	J	25000	25570	102	75 - 125

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Duplicate - Batch: 460-122432

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID:	460-42910-A-3-I DU ^5	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	5.0	Leach Batch:	460-122189	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0304	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	08/01/2012 1730				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	18.6	U	18.6	NC	20	U
Lead	22.9	J	23.63	3	20	J

Serial Dilution - Batch: 460-122432

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID:	460-42910-A-3-H SD ^2	Analysis Batch:	460-122616	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-122432	Lab File ID:	122424.asc
Dilution:	25	Leach Batch:	460-122189	Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2012 0311	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/03/2012 0803				
Leach Date:	08/01/2012 1730				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Arsenic	18.6	U	93.2	NC	10	U
Lead	22.9	J	100	NC	10	U

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Method Blank - Batch: 460-123214**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	MB 460-123214/1-A ^2	Analysis Batch:	460-123318	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	08/09/2012 1204	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.47	U	0.47	0.50
Lead	0.43	U	0.43	0.50

LCS-Certified Reference Material - Batch: 460-123214**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	LCSSRM	Analysis Batch:	460-123318	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	08/09/2012 1207	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	165	153.7	93.3	70.8 - 129.8	
Lead	75.4	75.47	100.1	68.7 - 131.3	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Matrix Spike - Batch: 460-123214**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	460-43211-A-1-H MS ^4	Analysis Batch:	460-123318	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	08/09/2012 1222	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.8	195	181.7	92	75 - 125	
Lead	4.6	48.7	53.18	100	75 - 125	

Post Digestion Spike - Batch: 460-123214**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	460-43211-A-1-F PDS ^4	Analysis Batch:	460-123318	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	08/09/2012 1225	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.8	389	360.7	92	75 - 125	
Lead	4.6	97.3	101.3	99	75 - 125	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Duplicate - Batch: 460-123214

Method: 6010B

Preparation: 3050B

Lab Sample ID:	460-43211-A-1-G DU ^4	Analysis Batch:	460-123318	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	08/09/2012 1211	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	1.8	1.18	43	20	
Lead	4.6	4.40	5	20	

Serial Dilution - Batch: 460-123214

Method: 6010B

Preparation: 3050B

Lab Sample ID:	460-43211-A-1-F SD ^20	Analysis Batch:	460-123318	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123214	Lab File ID:	08092012.asc
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	08/09/2012 1218	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/09/2012 0726				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Arsenic	1.8	4.6	NC	10	U
Lead	4.6	4.20	NC	10	J

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Method Blank - Batch: 460-123402**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	MB 460-123402/1-A ^2	Analysis Batch:	460-123507	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	08/10/2012 1308	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.47	U	0.47	0.50
Lead	0.43	U	0.43	0.50

LCS-Certified Reference Material - Batch: 460-123402**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	LCSSRM	Analysis Batch:	460-123507	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	08/10/2012 1257	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	165	156.9	95.3	70.8 - 129.8	
Lead	75.4	78.37	104.0	68.7 - 131.3	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Matrix Spike - Batch: 460-123402**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	460-43211-A-4-I MS ^4	Analysis Batch:	460-123507	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	08/10/2012 1247	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.3	195	187.0	95	75 - 125	
Lead	4.5	48.7	54.56	103	75 - 125	

Post Digestion Spike - Batch: 460-123402**Method: 6010B****Preparation: 3050B**

Lab Sample ID:	460-43211-A-4-G PDS	Analysis Batch:	460-123507	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	08/10/2012 1250	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.3	379	356.9	94	75 - 125	
Lead	4.5	94.8	98.07	99	75 - 125	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Duplicate - Batch: 460-123402

Method: 6010B

Preparation: 3050B

Lab Sample ID:	460-43211-A-4-H DU ^4	Analysis Batch:	460-123507	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	08/10/2012 1236	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	1.3	1.48	11	20	
Lead	4.5	5.02	10	20	

Serial Dilution - Batch: 460-123402

Method: 6010B

Preparation: 3050B

Lab Sample ID:	460-43211-A-4-G SD ^20	Analysis Batch:	460-123507	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-123402	Lab File ID:	08102012.asc
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	08/10/2012 1243	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/10/2012 0513				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Arsenic	1.3	4.5	NC	10	U
Lead	4.5	6.01	NC	10	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Duplicate - Batch: 460-122163

**Method: Moisture
Preparation: N/A**

Lab Sample ID:	460-42952-2	Analysis Batch:	460-122163	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/01/2012 1442	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	21.3	21.4	0.5	20	
Percent Solids	78.7	78.6	0.1	20	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Duplicate - Batch: 460-122175

**Method: Moisture
Preparation: N/A**

Lab Sample ID:	460-42968-A-7 DU	Analysis Batch:	460-122175	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/01/2012 1554	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	23.3	25.8	10	20	
Percent Solids	76.7	74.2	3	20	

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 460-42952-1

Lab Section	Qualifier	Description
Metals	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-122189					
LB 460-122189/1-D ^5	TCLP SPLPE Leachate Blank	P	Solid	1311	
460-42910-A-3-I DU ^5	Duplicate	P	Solid	1311	
460-42910-A-3-J MS ^5	Matrix Spike	P	Solid	1311	
Prep Batch: 460-122371					
LB 460-122371/1-B ^5	TCLP SPLPE Leachate Blank	P	Solid	1311	
460-42952-1	SB 163-J1	P	Solid	1311	
460-42952-2	SB 159-B1	P	Solid	1311	
460-42952-3	SB 147-AG1	P	Solid	1311	
Prep Batch: 460-122432					
LCS 460-122432/2-A	Lab Control Sample	T	Water	3010A	
MB 460-122432/1-A	Method Blank	T	Water	3010A	
LB 460-122189/1-D ^5	TCLP SPLPE Leachate Blank	P	Solid	3010A	460-122189
LB 460-122371/1-B ^5	TCLP SPLPE Leachate Blank	P	Solid	3010A	460-122371
460-42910-A-3-I DU ^5	Duplicate	P	Solid	3010A	460-122189
460-42910-A-3-J MS ^5	Matrix Spike	P	Solid	3010A	460-122189
460-42952-1	SB 163-J1	P	Solid	3010A	460-122371
460-42952-2	SB 159-B1	P	Solid	3010A	460-122371
460-42952-3	SB 147-AG1	P	Solid	3010A	460-122371
Analysis Batch: 460-122616					
LB 460-122189/1-D ^5	TCLP SPLPE Leachate Blank	P	Solid	6010B	460-122432
LCS 460-122432/2-A	Lab Control Sample	T	Water	6010B	460-122432
MB 460-122432/1-A	Method Blank	T	Water	6010B	460-122432
460-42910-A-3-I DU ^5	Duplicate	P	Solid	6010B	460-122432
460-42910-A-3-J MS ^5	Matrix Spike	P	Solid	6010B	460-122432
460-42952-1	SB 163-J1	P	Solid	6010B	460-122432
460-42952-2	SB 159-B1	P	Solid	6010B	460-122432
460-42952-3	SB 147-AG1	P	Solid	6010B	460-122432
Analysis Batch: 460-122646					
LB 460-122371/1-B ^5	TCLP SPLPE Leachate Blank	P	Solid	6010B	460-122432
460-42910-A-3-J MS ^5	Matrix Spike	P	Solid	6010B	460-122432
460-42952-1	SB 163-J1	P	Solid	6010B	460-122432
460-42952-3	SB 147-AG1	P	Solid	6010B	460-122432
Prep Batch: 460-123214					
LCSSRM 460-123214/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-123214/1-A ^2	Method Blank	T	Solid	3050B	
460-42952-1	SB 163-J1	T	Solid	3050B	
460-42952-2	SB 159-B1	T	Solid	3050B	
460-43211-A-1-G DU ^4	Duplicate	T	Solid	3050B	
460-43211-A-1-H MS ^4	Matrix Spike	T	Solid	3050B	

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:460-123318					
LCSSRM 460-123214/2-A ^4	LCS-Certified Reference Material	T	Solid	6010B	460-123214
MB 460-123214/1-A ^2	Method Blank	T	Solid	6010B	460-123214
460-42952-1	SB 163-J1	T	Solid	6010B	460-123214
460-42952-2	SB 159-B1	T	Solid	6010B	460-123214
460-43211-A-1-G DU ^4	Duplicate	T	Solid	6010B	460-123214
460-43211-A-1-H MS ^4	Matrix Spike	T	Solid	6010B	460-123214
Prep Batch: 460-123402					
LCSSRM 460-123402/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-123402/1-A ^2	Method Blank	T	Solid	3050B	
460-42952-3	SB 147-AG1	T	Solid	3050B	
460-43211-A-4-H DU ^4	Duplicate	T	Solid	3050B	
460-43211-A-4-I MS ^4	Matrix Spike	T	Solid	3050B	
Analysis Batch:460-123507					
LCSSRM 460-123402/2-A ^4	LCS-Certified Reference Material	T	Solid	6010B	460-123402
MB 460-123402/1-A ^2	Method Blank	T	Solid	6010B	460-123402
460-42952-3	SB 147-AG1	T	Solid	6010B	460-123402
460-43211-A-4-H DU ^4	Duplicate	T	Solid	6010B	460-123402
460-43211-A-4-I MS ^4	Matrix Spike	T	Solid	6010B	460-123402

Report Basis

P = TCLP

T = Total

General Chemistry

Analysis Batch:460-122163					
460-42952-1	SB 163-J1	T	Solid	Moisture	
460-42952-2	SB 159-B1	T	Solid	Moisture	
460-42952-2DU	Duplicate	T	Solid	Moisture	
Analysis Batch:460-122175					
460-42952-3	SB 147-AG1	T	Solid	Moisture	
460-42968-A-7 DU	Duplicate	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Laboratory Chronicle

Lab ID: 460-42952-1

Client ID: SB 163-J1

Sample Date/Time: 07/18/2012 14:45 Received Date/Time: 07/30/2012 19:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	460-42952-A-1-B ^5		460-122616	460-122432	08/03/2012 10:41	5	TAL EDI	QY
A:6010B	460-42952-A-1-B ^5		460-122616	460-122432	08/04/2012 05:15	5	TAL EDI	YH
P:3010A	460-42952-A-1-B ^100		460-122646	460-122432	08/03/2012 10:41	100	TAL EDI	QY
A:6010B	460-42952-A-1-B ^100		460-122646	460-122432	08/04/2012 16:25	100	TAL EDI	YH
P:3050B	460-42952-A-1-C ^50		460-123318	460-123214	08/09/2012 07:26	50	TAL EDI	MC
A:6010B	460-42952-A-1-C ^50		460-123318	460-123214	08/09/2012 16:33	50	TAL EDI	CDC
A:Moisture	460-42952-A-1		460-122163		08/01/2012 14:42	1	TAL EDI	CHA

Lab ID: 460-42952-2

Client ID: SB 159-B1

Sample Date/Time: 07/18/2012 14:50 Received Date/Time: 07/30/2012 19:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	460-42952-A-2-B ^5		460-122616	460-122432	08/03/2012 10:41	5	TAL EDI	QY
A:6010B	460-42952-A-2-B ^5		460-122616	460-122432	08/04/2012 05:18	5	TAL EDI	YH
P:3050B	460-42952-A-2-C ^30		460-123318	460-123214	08/09/2012 07:26	30	TAL EDI	MC
A:6010B	460-42952-A-2-C ^30		460-123318	460-123214	08/09/2012 16:36	30	TAL EDI	CDC
A:Moisture	460-42952-A-2		460-122163		08/01/2012 14:42	1	TAL EDI	CHA

Lab ID: 460-42952-2 DU

Client ID: SB 159-B1

Sample Date/Time: 07/18/2012 14:50 Received Date/Time: 07/30/2012 19:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	460-42952-A-2 DU		460-122163		08/01/2012 14:42	1	TAL EDI	CHA

Lab ID: 460-42952-3

Client ID: SB 147-AG1

Sample Date/Time: 07/18/2012 15:00 Received Date/Time: 07/30/2012 19:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	460-42952-A-3-B ^5		460-122616	460-122432	08/03/2012 10:41	5	TAL EDI	QY
A:6010B	460-42952-A-3-B ^5		460-122616	460-122432	08/04/2012 05:22	5	TAL EDI	YH
P:3010A	460-42952-A-3-B ^100		460-122646	460-122432	08/03/2012 10:41	100	TAL EDI	QY
A:6010B	460-42952-A-3-B ^100		460-122646	460-122432	08/04/2012 16:28	100	TAL EDI	YH
P:3050B	460-42952-A-3-C ^20		460-123507	460-123402	08/10/2012 05:13	20	TAL EDI	MC
A:6010B	460-42952-A-3-C ^20		460-123507	460-123402	08/10/2012 13:22	20	TAL EDI	CDC
A:Moisture	460-42952-A-3		460-122175		08/01/2012 15:54	1	TAL EDI	CHA

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	MB 460-122432/1-A		460-122616	460-122432	08/03/2012 08:03	1	TAL EDI	QY
A:6010B	MB 460-122432/1-A		460-122616	460-122432	08/04/2012 02:56	1	TAL EDI	YH
P:3050B	MB 460-123214/1-A ^2		460-123318	460-123214	08/09/2012 07:26	2	TAL EDI	MC
A:6010B	MB 460-123214/1-A ^2		460-123318	460-123214	08/09/2012 12:04	2	TAL EDI	CDC
P:3050B	MB 460-123402/1-A ^2		460-123507	460-123402	08/10/2012 05:13	2	TAL EDI	MC
A:6010B	MB 460-123402/1-A ^2		460-123507	460-123402	08/10/2012 13:08	2	TAL EDI	CDC

Lab ID: LB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LB 460-122189/1-D ^5		460-122616	460-122432	08/03/2012 08:03	5	TAL EDI	QY
A:6010B	LB 460-122189/1-D ^5		460-122616	460-122432	08/04/2012 05:07	5	TAL EDI	YH
P:3010A	LB 460-122371/1-B ^5		460-122646	460-122432	08/03/2012 10:41	5	TAL EDI	QY
A:6010B	LB 460-122371/1-B ^5		460-122646	460-122432	08/04/2012 13:23	5	TAL EDI	YH

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	LCS 460-122432/2-A		460-122616	460-122432	08/03/2012 08:03	1	TAL EDI	QY
A:6010B	LCS 460-122432/2-A		460-122616	460-122432	08/04/2012 03:00	1	TAL EDI	YH

Lab ID: LCSSRM

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCSSRM 460-123214/2-A ^4		460-123318	460-123214	08/09/2012 07:26	4	TAL EDI	MC
A:6010B	LCSSRM 460-123214/2-A ^4		460-123318	460-123214	08/09/2012 12:07	4	TAL EDI	CDC
P:3050B	LCSSRM 460-123402/2-A ^4		460-123507	460-123402	08/10/2012 05:13	4	TAL EDI	MC
A:6010B	LCSSRM 460-123402/2-A ^4		460-123507	460-123402	08/10/2012 12:57	4	TAL EDI	CDC

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Laboratory Chronicle

Lab ID: MS		Client ID: N/A		Sample Date/Time: N/A		Received Date/Time: N/A		
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	460-42910-A-3-J MS ^5		460-122616	460-122432	08/03/2012 08:03	5	TAL EDI	QY
A:6010B	460-42910-A-3-J MS ^5		460-122616	460-122432	08/04/2012 03:22	5	TAL EDI	YH
P:3050B	460-43211-A-1-H MS ^4		460-123318	460-123214	08/09/2012 07:26	4	TAL EDI	MC
A:6010B	460-43211-A-1-H MS ^4		460-123318	460-123214	08/09/2012 12:22	4	TAL EDI	CDC
P:3050B	460-43211-A-4-I MS ^4		460-123507	460-123402	08/10/2012 05:13	4	TAL EDI	MC
A:6010B	460-43211-A-4-I MS ^4		460-123507	460-123402	08/10/2012 12:47	4	TAL EDI	CDC
Lab ID: DU		Client ID: N/A		Sample Date/Time: N/A		Received Date/Time: N/A		
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	460-42910-A-3-I DU ^5		460-122616	460-122432	08/03/2012 08:03	5	TAL EDI	QY
A:6010B	460-42910-A-3-I DU ^5		460-122616	460-122432	08/04/2012 03:04	5	TAL EDI	YH
P:3050B	460-43211-A-1-G DU ^4		460-123318	460-123214	08/09/2012 07:26	4	TAL EDI	MC
A:6010B	460-43211-A-1-G DU ^4		460-123318	460-123214	08/09/2012 12:11	4	TAL EDI	CDC
P:3050B	460-43211-A-4-H DU ^4		460-123507	460-123402	08/10/2012 05:13	4	TAL EDI	MC
A:6010B	460-43211-A-4-H DU ^4		460-123507	460-123402	08/10/2012 12:36	4	TAL EDI	CDC
A:Moisture	460-42968-A-7 DU		460-122175		08/01/2012 15:54	1	TAL EDI	CHA

Quality Control Results

Client: URS Corporation

Job Number: 460-42952-1

Laboratory Chronicle

Lab ID:	SD	Client ID:	N/A	Sample Date/Time:	N/A	Received Date/Time:	N/A	
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	460-42910-A-3-H SD ^2		460-122616	460-122432	08/03/2012 08:03	25	TAL EDI	QY
A:6010B	460-42910-A-3-H SD ^2		460-122616	460-122432	08/04/2012 03:11	25	TAL EDI	YH
P:3010A	460-42910-A-3-H PDS		460-122616	460-122432	08/03/2012 08:03	5	TAL EDI	QY
A:6010B	460-42910-A-3-H PDS		460-122616	460-122432	08/04/2012 03:25	5	TAL EDI	YH
P:3050B	460-43211-A-1-F SD ^20		460-123318	460-123214	08/09/2012 07:26	20	TAL EDI	MC
A:6010B	460-43211-A-1-F SD ^20		460-123318	460-123214	08/09/2012 12:18	20	TAL EDI	CDC
P:3050B	460-43211-A-1-F PDS ^4		460-123318	460-123214	08/09/2012 07:26	4	TAL EDI	MC
A:6010B	460-43211-A-1-F PDS ^4		460-123318	460-123214	08/09/2012 12:25	4	TAL EDI	CDC
P:3050B	460-43211-A-4-G SD ^20		460-123507	460-123402	08/10/2012 05:13	20	TAL EDI	MC
A:6010B	460-43211-A-4-G SD ^20		460-123507	460-123402	08/10/2012 12:43	20	TAL EDI	CDC
P:3050B	460-43211-A-4-G PDS ^4		460-123507	460-123402	08/10/2012 05:13	4	TAL EDI	MC
A:6010B	460-43211-A-4-G PDS ^4		460-123507	460-123402	08/10/2012 12:50	4	TAL EDI	CDC

Lab References:

TAL EDI = TestAmerica Edison

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-42952-1

SDG No.: _____

Project: Dow Philly Plant

Client Sample ID
SB 163-J1
SB 159-B1
SB 147-AG1

Lab Sample ID
460-42952-1
460-42952-2
460-42952-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB 163-J1

Lab Sample ID: 460-42952-1

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/18/2012 14:45

Reporting Basis: DRY

Date Received: 07/30/2012 19:50

% Solids: 79.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	56.6	14.8	13.9	mg/Kg			50	6010B
7439-92-1	Lead	32400	14.8	12.7	mg/Kg			50	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: SB 163-J1

Lab Sample ID: 460-42952-1

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/18/2012 14:45

Reporting Basis: WET

Date Received: 07/30/2012 19:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	18.6	25.0	18.6	ug/L	U		5	6010B
7439-92-1	Lead	303000	500	401	ug/L			100	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB 159-B1

Lab Sample ID: 460-42952-2

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/18/2012 14:50

Reporting Basis: DRY

Date Received: 07/30/2012 19:50

% Solids: 78.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	905	8.7	8.2	mg/Kg			30	6010B
7439-92-1	Lead	13200	8.7	7.5	mg/Kg			30	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: SB 159-B1

Lab Sample ID: 460-42952-2

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/18/2012 14:50

Reporting Basis: WET

Date Received: 07/30/2012 19:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	47.7	25.0	18.6	ug/L			5	6010B
7439-92-1	Lead	3090	25.0	20.1	ug/L			5	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB 147-AG1

Lab Sample ID: 460-42952-3

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/18/2012 15:00

Reporting Basis: DRY

Date Received: 07/30/2012 19:50

% Solids: 79.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	61.1	5.8	5.5	mg/Kg			20	6010B
7439-92-1	Lead	7690	5.8	5.0	mg/Kg			20	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: SB 147-AG1

Lab Sample ID: 460-42952-3

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG ID.:

Matrix: Solid

Date Sampled: 07/18/2012 15:00

Reporting Basis: WET

Date Received: 07/30/2012 19:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	18.6	25.0	18.6	ug/L	U		5	6010B
7439-92-1	Lead	174000	500	401	ug/L			100	6010B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00055 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00055

Analyte	ICV 460-122616/7 08/04/2012 00:20				CCV 460-122616/43 08/04/2012 02:32				CCV 460-122616/55 08/04/2012 03:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2454		2500	98	2437		2500	97	2424		2500	97
Lead	7502		7500	100	7448		7500	99	7421		7500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00055 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00055

Analyte	CCV 460-122616/67 08/04/2012 03:58				CCV 460-122616/79 08/04/2012 04:42				CCV 460-122616/91 08/04/2012 05:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2439		2500	98	2433		2500	97	2418		2500	97
Lead	7443		7500	99	7422		7500	99	7399		7500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
ICV Source: ME_CCV_DUO_00055 Concentration Units: ug/L
CCV Source: ME_CCV_DUO_00055

Analyte	ICV 460-122646/7 08/04/2012 13:01				CCV 460-122646/19 08/04/2012 13:45				CCV 460-122646/55 08/04/2012 15:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2438		2500	98	2452		2500	98	2449		2500	98
Lead	7453		7500	99	7474		7500	100	7450		7500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00055 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00055

Analyte	CCV 460-122646/67 08/04/2012 16:40											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2456		2500	98								
Lead	7457		7500	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
ICV Source: ME_CCV_DUO_00056 Concentration Units: ug/L
CCV Source: ME_CCV_DUO_00056

Analyte	ICV 460-123318/7 08/09/2012 11:13				CCV 460-123318/19 08/09/2012 11:56				CCV 460-123318/31 08/09/2012 12:40			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2482		2500	99	2490		2500	100	2504		2500	100
Lead	7621		7500	102	7627		7500	102	7673		7500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00056 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00056

Analyte	CCV 460-123318/67 08/09/2012 14:51				CCV 460-123318/79 08/09/2012 15:35				CCV 460-123318/91 08/09/2012 16:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2498		2500	100	2487		2500	99	2507		2500	100
Lead	7560		7500	101	7558		7500	101	7547		7500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00056 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00056

Analyte	CCV 460-123318/97 08/09/2012 16:40											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2498		2500	100								
Lead	7547		7500	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00056 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00056

Analyte	ICV 460-123507/7 08/10/2012 10:50				CCV 460-123507/31 08/10/2012 12:18				CCV 460-123507/43 08/10/2012 13:01			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2515		2500	101	2539		2500	102	2510		2500	100
Lead	7704		7500	103	7727		7500	103	7663		7500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00056 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00056

Analyte	CCV 460-123507/55 08/10/2012 13:44											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2503		2500	100								
Lead	7625		7500	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-122616/8 08/04/2012 00:24		CCB 460-122616/44 08/04/2012 02:35		CCB 460-122616/56 08/04/2012 03:18		CCB 460-122616/68 08/04/2012 04:01	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U	3.7	U	3.7	U
Lead	5.0	4.0	U	4.0	U	4.0	U	4.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-122616/80 08/04/2012 04:45		CCB 460-122616/92 08/04/2012 05:29					
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U				
Lead	5.0	4.0	U	4.0	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-122646/8 08/04/2012 13:04		CCB 460-122646/20 08/04/2012 13:48		CCB 460-122646/56 08/04/2012 15:59		CCB 460-122646/68 08/04/2012 16:43	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U	3.7	U	3.7	U
Lead	5.0	4.0	U	4.0	U	4.0	U	4.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-123318/8 08/09/2012 11:16		CCB 460-123318/20 08/09/2012 12:00		CCB 460-123318/32 08/09/2012 12:43		CCB 460-123318/68 08/09/2012 14:54	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U	3.7	U	3.7	U
Lead	5.0	4.0	U	4.0	U	4.0	U	4.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-123318/80 08/09/2012 15:38		CCB 460-123318/92 08/09/2012 16:21		CCB 460-123318/98 08/09/2012 16:43			
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U	3.7	U		
Lead	5.0	4.0	U	4.0	U	4.0	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-123507/8 08/10/2012 10:54		CCB 460-123507/32 08/10/2012 12:21		CCB 460-123507/44 08/10/2012 13:04		CCB 460-123507/56 08/10/2012 13:47	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U	3.7	U	3.7	U
Lead	5.0	4.0	U	4.0	U	4.0	U	4.0	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 460-122432/1-A

Instrument Code: ICP4 Batch No.: 122616

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	3.7	U		6010B
7439-92-1	Lead	4.0	U		6010B

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: LB 460-122189/1-D ^5

Instrument Code: ICP4 Batch No.: 122616

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	18.6	U		6010B
7439-92-1	Lead	20.1	U		6010B

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: LB 460-122371/1-B ^5

Instrument Code: ICP4 Batch No.: 122646

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	18.6	U		6010B
7439-92-1	Lead	20.25	J		6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Concentration Units: mg/Kg Lab Sample ID: MB 460-123214/1-A ^2

Instrument Code: ICP4 Batch No.: 123318

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.47	U		6010B
7439-92-1	Lead	0.43	U		6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Concentration Units: mg/Kg Lab Sample ID: MB 460-123402/1-A ^2

Instrument Code: ICP4 Batch No.: 123507

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.47	U		6010B
7439-92-1	Lead	0.43	U		6010B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSA 460-122616/9 Instrument ID: ICP4
Lab File ID: 122424.asc ICS Source: ME_ICSA_Duo_00039
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Arsenic		-4.18	
Lead		-1.70	
Aluminum	500000	528300	106
Antimony		-3.60	
Barium		3.97	
Beryllium		-0.314	
Boron		-0.424	
Cadmium		1.91	
Calcium	500000	467900	94
Chromium		-0.259	
Cobalt		-0.175	
Copper		8.52	
Iron	200000	208100	104
Magnesium	500000	536900	107
Manganese		-1.46	
Molybdenum		-3.31	
Nickel		0.306	
Potassium		-184	
Selenium		4.32	
Silver		-2.26	
Sodium		-37.2	
Strontium		2.20	
Thallium		-5.06	
Tin		1.33	
Titanium		8.24	
Vanadium		-4.76	
Zinc		-0.0224	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSAB 460-122616/10 Instrument ID: ICP4
Lab File ID: 122424.asc ICS Source: ME_ICSAB_DUO_00040
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	96.7	97
Lead	100	96.3	96
<i>Aluminum</i>	500000	515700	103
<i>Antimony</i>	100	94.6	95
<i>Barium</i>	100	103	103
<i>Beryllium</i>	100	100	100
<i>Boron</i>	100	94.0	94
<i>Cadmium</i>	100	99.7	100
<i>Calcium</i>	500000	453100	91
<i>Chromium</i>	100	102	102
<i>Cobalt</i>	100	96.4	96
<i>Copper</i>	100	108	108
<i>Iron</i>	200000	204400	102
<i>Magnesium</i>	500000	527800	106
<i>Manganese</i>	100	103	103
<i>Molybdenum</i>	100	96.0	96
<i>Nickel</i>	100	96.6	97
<i>Potassium</i>	10000	10360	104
<i>Selenium</i>	100	102	102
<i>Silver</i>	100	105	105
<i>Sodium</i>	10000	10600	106
<i>Strontium</i>	100	104	104
<i>Thallium</i>	100	90.2	90
<i>Tin</i>	100	98.2	98
<i>Titanium</i>	100	110	110
<i>Vanadium</i>	100	98.0	98
<i>Zinc</i>	100	96.6	97

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSA 460-122646/9 Instrument ID: ICP4
Lab File ID: 122559.asc ICS Source: ME_ICSA_Duo_00039
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Arsenic		0.163	
Lead		0.431	
Aluminum	500000	531700	106
Antimony		-5.77	
Barium		4.32	
Beryllium		-0.0238	
Boron		-0.528	
Cadmium		1.79	
Calcium	500000	473800	95
Chromium		0.304	
Cobalt		-0.683	
Copper		2.96	
Iron	200000	208700	104
Magnesium	500000	538800	108
Manganese		-1.40	
Molybdenum		-2.25	
Nickel		0.627	
Potassium		-155	
Selenium		4.04	
Silver		-1.76	
Sodium		-49.6	
Strontium		1.85	
Thallium		-6.84	
Tin		2.18	
Titanium		8.37	
Vanadium		-4.43	
Zinc		0.579	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSAB 460-122646/10 Instrument ID: ICP4
Lab File ID: 122559.asc ICS Source: ME_ICSAB_DUO_00040
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	98.1	98
Lead	100	97.8	98
<i>Aluminum</i>	500000	522000	104
<i>Antimony</i>	100	96.6	97
<i>Barium</i>	100	104	104
<i>Beryllium</i>	100	101	101
<i>Boron</i>	100	93.7	94
<i>Cadmium</i>	100	100	100
<i>Calcium</i>	500000	462700	93
<i>Chromium</i>	100	102	102
<i>Cobalt</i>	100	97.6	98
<i>Copper</i>	100	107	107
<i>Iron</i>	200000	205800	103
<i>Magnesium</i>	500000	532500	106
<i>Manganese</i>	100	104	104
<i>Molybdenum</i>	100	96.1	96
<i>Nickel</i>	100	97.7	98
<i>Potassium</i>	10000	10620	106
<i>Selenium</i>	100	103	103
<i>Silver</i>	100	106	106
<i>Sodium</i>	10000	10800	108
<i>Strontium</i>	100	106	106
<i>Thallium</i>	100	94.3	94
<i>Tin</i>	100	99.2	99
<i>Titanium</i>	100	110	110
<i>Vanadium</i>	100	97.8	98
<i>Zinc</i>	100	97.1	97

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSA 460-122646/65 Instrument ID: ICP4
Lab File ID: 122559.asc ICS Source: ME_ICSA_Duo_00039
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Arsenic		-2.12	
Lead		-0.386	
Aluminum	500000	512600	103
Antimony		-5.74	
Barium		4.84	
Beryllium		-0.167	
Boron		-2.50	
Cadmium		1.86	
Calcium	500000	446200	89
Chromium		-0.195	
Cobalt		-0.945	
Copper		0.969	
Iron	200000	203400	102
Magnesium	500000	527600	106
Manganese		-1.39	
Molybdenum		-2.21	
Nickel		0.268	
Potassium		-407	
Selenium		0.501	
Silver		-2.24	
Sodium		-120	
Strontium		2.89	
Thallium		-7.37	
Tin		1.91	
Titanium		7.73	
Vanadium		-4.19	
Zinc		-3.23	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSAB 460-122646/66 Instrument ID: ICP4
Lab File ID: 122559.asc ICS Source: ME_ICSAB_DUO_00040
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	100	100
Lead	100	96.8	97
<i>Aluminum</i>	500000	516300	103
<i>Antimony</i>	100	94.5	95
<i>Barium</i>	100	104	104
<i>Beryllium</i>	100	101	101
<i>Boron</i>	100	92.6	93
<i>Cadmium</i>	100	99.6	100
<i>Calcium</i>	500000	446300	89
<i>Chromium</i>	100	102	102
<i>Cobalt</i>	100	96.5	96
<i>Copper</i>	100	105	105
<i>Iron</i>	200000	204400	102
<i>Magnesium</i>	500000	527700	106
<i>Manganese</i>	100	103	103
<i>Molybdenum</i>	100	96.1	96
<i>Nickel</i>	100	96.8	97
<i>Potassium</i>	10000	10170	102
<i>Selenium</i>	100	99.5	100
<i>Silver</i>	100	105	105
<i>Sodium</i>	10000	10680	107
<i>Strontium</i>	100	105	105
<i>Thallium</i>	100	90.9	91
<i>Tin</i>	100	97.4	97
<i>Titanium</i>	100	110	110
<i>Vanadium</i>	100	97.4	97
<i>Zinc</i>	100	97.5	98

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSA 460-123318/9 Instrument ID: ICP4
Lab File ID: 08092012.asc ICS Source: ME_ICSA_Duo_00039
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Arsenic		1.07	
Lead		0.774	
Aluminum	500000	514200	103
Antimony		-2.49	
Barium		-0.681	
Beryllium		0.0510	
Boron		1.93	
Cadmium		-1.06	
Calcium	500000	466800	93
Chromium		0.165	
Cobalt		-0.443	
Copper		3.52	
Iron	200000	202500	101
Magnesium	500000	523600	105
Manganese		-1.57	
Molybdenum		-2.46	
Nickel		0.839	
Potassium		-200	
Selenium		0.415	
Silver		-1.93	
Sodium		-148	
Strontium		1.43	
Thallium		-2.30	
Tin		-0.663	
Titanium		-3.60	
Vanadium		-3.10	
Zinc		-3.30	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSAB 460-123318/10 Instrument ID: ICP4
Lab File ID: 08092012.asc ICS Source: ME_ICSAB_DUO_00040
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	101	101
Lead	100	98.0	98
<i>Aluminum</i>	500000	512900	103
<i>Antimony</i>	100	93.5	94
<i>Barium</i>	100	97.6	98
<i>Beryllium</i>	100	100	100
<i>Boron</i>	100	98.2	98
<i>Cadmium</i>	100	96.6	97
<i>Calcium</i>	500000	466900	93
<i>Chromium</i>	100	101	101
<i>Cobalt</i>	100	95.9	96
<i>Copper</i>	100	98.9	99
<i>Iron</i>	200000	201600	101
<i>Magnesium</i>	500000	522400	104
<i>Manganese</i>	100	101	101
<i>Molybdenum</i>	100	93.9	94
<i>Nickel</i>	100	95.5	95
<i>Potassium</i>	10000	10350	104
<i>Selenium</i>	100	94.1	94
<i>Silver</i>	100	104	104
<i>Sodium</i>	10000	10420	104
<i>Strontium</i>	100	102	102
<i>Thallium</i>	100	93.5	94
<i>Tin</i>	100	97.4	97
<i>Titanium</i>	100	96.9	97
<i>Vanadium</i>	100	97.7	98
<i>Zinc</i>	100	93.6	94

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
Lab Sample ID: ICSA 460-123507/17 Instrument ID: ICP4
Lab File ID: 08102012.asc ICS Source: ME_ICSA_Duo_00039
Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Arsenic		1.59	
Lead		-0.295	
Aluminum	500000	513100	103
Antimony		-5.97	
Barium		-1.61	
Beryllium		-0.138	
Boron		-0.968	
Cadmium		-1.41	
Calcium	500000	473800	95
Chromium		-0.590	
Cobalt		-0.254	
Copper		-9.88	
Iron	200000	203400	102
Magnesium	500000	532100	106
Manganese		-1.76	
Molybdenum		-3.44	
Nickel		0.931	
Potassium		-288	
Selenium		-3.53	
Silver		-2.35	
Sodium		-133	
Strontium		1.08	
Thallium		2.56	
Tin		0.943	
Titanium		-4.44	
Vanadium		-2.17	
Zinc		-2.50	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Lab Sample ID: ICSAB 460-123507/18

Instrument ID: ICP4

Lab File ID: 08102012.asc

ICS Source: ME_ICSAB_DUO_00040

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	98.5	98
Lead	100	96.9	97
<i>Aluminum</i>	500000	508300	102
<i>Antimony</i>	100	98.7	99
<i>Barium</i>	100	97.6	98
<i>Beryllium</i>	100	98.8	99
<i>Boron</i>	100	97.3	97
<i>Cadmium</i>	100	97.1	97
<i>Calcium</i>	500000	465400	93
<i>Chromium</i>	100	101	101
<i>Cobalt</i>	100	96.9	97
<i>Copper</i>	100	87.3	87
<i>Iron</i>	200000	203200	102
<i>Magnesium</i>	500000	530000	106
<i>Manganese</i>	100	101	101
<i>Molybdenum</i>	100	94.7	95
<i>Nickel</i>	100	97.6	98
<i>Potassium</i>	10000	10190	102
<i>Selenium</i>	100	89.5	89
<i>Silver</i>	100	105	105
<i>Sodium</i>	10000	10280	103
<i>Strontium</i>	100	101	101
<i>Thallium</i>	100	97.3	97
<i>Tin</i>	100	99.5	100
<i>Titanium</i>	100	94.1	94
<i>Vanadium</i>	100	98.3	98
<i>Zinc</i>	100	96.2	96

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: _____

Lab ID: 460-42910-A-3-J MS ^5

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Matrix: Solid

Concentration Units: ug/L

% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	5065	18.6 U	5000	101	75-125		6010B
Lead	5490	22.9 J	5000	109	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-43211-A-1-H MS ^4

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 96.0

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	181.7	1.8	195	92	75-125		6010B
Lead	53.18	4.6	48.7	100	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-43211-A-4-I MS ^4

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 96.8

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	187.0	1.3	195	95	75-125		6010B
Lead	54.56	4.5	48.7	103	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TCLP

Client ID: _____

Lab ID: 460-42910-A-3-H PDS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Matrix: Solid

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	23650	18.6 U	25000	95	75-125		6010B
Lead	25570	22.9 J	25000	102	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-43211-A-1-F PDS ^4

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA) C	%R	Control Limit %R	Q	Method
Arsenic	360.7	1.8	389	92	75-125		6010B
Lead	101.3	4.6	97.3	99	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-43211-A-4-G PDS ^4

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA) C	%R	Control Limit %R	Q	Method
Arsenic	356.9	1.3	379	94	75-125		6010B
Lead	98.07	4.5	94.8	99	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS - TCLP

Client ID: _____ Lab ID: 460-42910-A-3-I DU ^5
Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
% Solids for Sample: _____ % Solids for Duplicate: _____
Matrix: Solid Concentration Units: ug/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Arsenic	25.0	18.6 U	18.6 U	NC		6010B
Lead	25.0	22.9 J	23.63 J	3		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 460-43211-A-1-G DU ^4
Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
% Solids for Sample: 96.0 % Solids for Duplicate: 96.0
Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Arsenic	0.96	1.8	1.18	43		6010B
Lead	0.96	4.6	4.40	5		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 460-43211-A-4-H DU ^4
Lab Name: TestAmerica Edison Job No.: 460-42952-1
SDG No.: _____
% Solids for Sample: 96.8 % Solids for Duplicate: 96.8
Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Arsenic	0.97	1.3	1.48	11		6010B
Lead	0.97	4.5	5.02	10		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-122432/2-A

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

Sample Matrix: Water

LCS Source: ME_TCLPspk_00014

Analyte	Water (ug/L)						
	True	Found	C	%R	Limits	Q	Method
Arsenic	5000	4829		97	80 120		6010B
Lead	5000	5439		109	80 120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-123214/2-A ^4

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

Sample Matrix: Solid

LCS Source: ME_LCSS_77_00001

Analyte	Solid (mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Arsenic	165	153.7		93.3	70.8	129.8	
Lead	75.4	75.47		100.1	68.7	131.3	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-123402/2-A ^4

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

Sample Matrix: Solid

LCS Source: ME_LCSS_77_00001

Analyte	Solid (mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Arsenic	165	156.9		95.3	70.8 129.8		6010B
Lead	75.4	78.37		104.0	68.7 131.3		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TCLP

Lab ID: 460-42910-A-3-H SD ^2

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-42952-1

Matrix: Solid

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Arsenic	18.6	U	93.2	U	NC		6010B
Lead	22.9	J	100	U	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-43211-A-1-F SD ^20

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-42952-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Arsenic	1.8		4.6	U		NC	6010B
Lead	4.6		4.20	J		NC	6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-43211-A-4-G SD ^20

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-42952-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Arsenic	1.3		4.5	U	NC		6010B
Lead	4.5		6.01		NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison

Job Number: 460-42952-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP4

Method: 6010B

MDL Date: 02/08/2012 17:17

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		1	0.94
Lead		1	0.86

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison

Job Number: 460-42952-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP4

Method: 6010B

XMDL Date: 11/14/2011 14:14

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		5	3.729
Lead		5	4.012

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Edison

Job Number: 460-42952-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP4

Method: 6010B

MDL Date: 11/14/2011 12:49

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Arsenic		5	3.729
Lead		5	4.012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Edison

Job Number: 460-42952-1

SDG Number: _____

Matrix: Solid

Instrument ID: ICP4

Method: 6010B

XMDL Date: 11/14/2011 12:49

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		5	3.729
Lead		5	4.012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison

Job No: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Date: 01/05/2012 09:24

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		20000	6010B
Lead		60000	6010B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-122432/1-A	08/03/2012 08:03	122432		50	50
LCS 460-122432/2-A	08/03/2012 08:03	122432		50	50
460-42910-A-3-I DU ^5	08/03/2012 08:03	122432		50	50
460-42910-A-3-J MS ^5	08/03/2012 08:03	122432		50	50
LB 460-122189/1-D ^5	08/03/2012 08:03	122432		50	50
460-42952-1	08/03/2012 10:41	122432		50	50
460-42952-2	08/03/2012 10:41	122432		50	50
460-42952-3	08/03/2012 10:41	122432		50	50
LB 460-122371/1-B ^5	08/03/2012 10:41	122432		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-123214/1-A ^2	08/09/2012 07:26	123214	1.00		50
LCSSRM 460-123214/2-A ^4	08/09/2012 07:26	123214	1.02		50
460-43211-A-1-G DU ^4	08/09/2012 07:26	123214	1.08		50
460-43211-A-1-H MS ^4	08/09/2012 07:26	123214	1.07		50
460-42952-1	08/09/2012 07:26	123214	1.06		50
460-42952-2	08/09/2012 07:26	123214	1.09		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-123402/1-A ^2	08/10/2012 05:13	123402	1.00		50
LCSSRM 460-123402/2-A ^4	08/10/2012 05:13	123402	1.02		50
460-43211-A-4-H DU ^4	08/10/2012 05:13	123402	1.07		50
460-43211-A-4-I MS ^4	08/10/2012 05:13	123402	1.06		50
460-42952-3	08/10/2012 05:13	123402	1.08		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/03/2012 23:59 End Date: 08/04/2012 10:59

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			23:59													
ZZZZZZ			00:02													
ZZZZZZ			00:06													
ZZZZZZ			00:10													
ZZZZZZ			00:13													
ZZZZZZ			00:17													
ICV 460-122616/7	1		00:20	X	X											
ICB 460-122616/8	1		00:24	X	X											
ICSA 460-122616/9	1		00:27	X	X											
ICSAB 460-122616/10	1		00:31	X	X											
ZZZZZZ			00:35													
ZZZZZZ			00:39													
ZZZZZZ			00:42													
ZZZZZZ			00:46													
ZZZZZZ			00:50													
ZZZZZZ			00:53													
ZZZZZZ			00:57													
ZZZZZZ			01:00													
CCV 460-122616/19			01:04													
CCB 460-122616/20			01:07													
ZZZZZZ			01:11													
ZZZZZZ			01:15													
ZZZZZZ			01:18													
ZZZZZZ			01:22													
ZZZZZZ			01:26													
ZZZZZZ			01:29													
ZZZZZZ			01:33													
ZZZZZZ			01:37													
ZZZZZZ			01:40													
ZZZZZZ			01:44													
CCV 460-122616/31			01:48													
CCB 460-122616/32			01:51													
ZZZZZZ			01:55													
ZZZZZZ			01:58													
ZZZZZZ			02:02													
ZZZZZZ			02:06													
ZZZZZZ			02:09													
ZZZZZZ			02:13													
ZZZZZZ			02:17													
ZZZZZZ			02:21													
ZZZZZZ			02:24													
ZZZZZZ			02:28													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/03/2012 23:59 End Date: 08/04/2012 10:59

Lab Sample ID	D / F	T Y p e	Time	Analytes															
				A s	P b														
CCV 460-122616/43	1		02:32	X	X														
CCB 460-122616/44	1		02:35	X	X														
ZZZZZZ			02:39																
ZZZZZZ			02:42																
ZZZZZZ			02:46																
ZZZZZZ			02:49																
ZZZZZZ			02:53																
MB 460-122432/1-A	1	T	02:56	X	X														
LCS 460-122432/2-A	1	T	03:00	X	X														
460-42910-A-3-I DU ^5	5	P	03:04	X	X														
ZZZZZZ			03:07																
460-42910-A-3-H SD ^2	25	P	03:11	X	X														
CCV 460-122616/55	1		03:15	X	X														
CCB 460-122616/56	1		03:18	X	X														
460-42910-A-3-J MS ^5	5	P	03:22	X	X														
460-42910-A-3-H PDS	5	P	03:25	X	X														
ZZZZZZ			03:29																
ZZZZZZ			03:32																
ZZZZZZ			03:36																
ZZZZZZ			03:40																
ZZZZZZ			03:43																
ZZZZZZ			03:47																
ZZZZZZ			03:51																
ZZZZZZ			03:54																
CCV 460-122616/67	1		03:58	X	X														
CCB 460-122616/68	1		04:01	X	X														
ZZZZZZ			04:05																
ZZZZZZ			04:09																
ZZZZZZ			04:12																
ZZZZZZ			04:16																
ZZZZZZ			04:20																
ZZZZZZ			04:23																
ZZZZZZ			04:27																
ZZZZZZ			04:31																
ZZZZZZ			04:34																
ZZZZZZ			04:38																
CCV 460-122616/79	1		04:42	X	X														
CCB 460-122616/80	1		04:45	X	X														
ZZZZZZ			04:49																
ZZZZZZ			04:53																
ZZZZZZ			04:56																
ZZZZZZ			05:00																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/03/2012 23:59 End Date: 08/04/2012 10:59

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			05:04													
LB 460-122189/1-D ^5	5	P	05:07	X	X											
ZZZZZZ			05:11													
460-42952-1	5	P	05:15	X												
460-42952-2	5	P	05:18	X	X											
460-42952-3	5	P	05:22	X												
CCV 460-122616/91	1		05:26	X	X											
CCB 460-122616/92	1		05:29	X	X											
ZZZZZZ			05:33													
ZZZZZZ			05:37													
ZZZZZZ			05:40													
ZZZZZZ			05:44													
ZZZZZZ			05:48													
ZZZZZZ			05:51													
ZZZZZZ			05:55													
ZZZZZZ			05:59													
ZZZZZZ			06:03													
ZZZZZZ			06:06													
CCV 460-122616/103			06:10													
CCB 460-122616/104			06:13													
ZZZZZZ			06:17													
ZZZZZZ			06:21													
ZZZZZZ			06:25													
ZZZZZZ			06:28													
ZZZZZZ			06:32													
ZZZZZZ			06:36													
ZZZZZZ			06:40													
ZZZZZZ			06:43													
ZZZZZZ			06:47													
ZZZZZZ			06:51													
CCV 460-122616/115			06:54													
CCB 460-122616/116			06:58													
ZZZZZZ			07:02													
ZZZZZZ			07:06													
ZZZZZZ			07:09													
ZZZZZZ			07:13													
ZZZZZZ			07:17													
ZZZZZZ			07:21													
ZZZZZZ			07:24													
ZZZZZZ			07:28													
ZZZZZZ			07:31													
ZZZZZZ			07:35													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/03/2012 23:59 End Date: 08/04/2012 10:59

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
CCV 460-122616/127			07:39													
CCB 460-122616/128			07:42													
ZZZZZZ			07:46													
ZZZZZZ			07:50													
ZZZZZZ			07:53													
ZZZZZZ			07:56													
ZZZZZZ			08:00													
ZZZZZZ			08:04													
ZZZZZZ			08:08													
ZZZZZZ			08:11													
ZZZZZZ			08:15													
ZZZZZZ			08:19													
CCV 460-122616/139			08:22													
CCB 460-122616/140			08:26													
ZZZZZZ			08:30													
ZZZZZZ			08:33													
ZZZZZZ			08:37													
ZZZZZZ			08:41													
ZZZZZZ			08:45													
ZZZZZZ			08:49													
ZZZZZZ			08:52													
ZZZZZZ			08:56													
ZZZZZZ			09:00													
ZZZZZZ			09:04													
CCV 460-122616/151			09:07													
CCB 460-122616/152			09:11													
ZZZZZZ			09:15													
ZZZZZZ			09:19													
ZZZZZZ			09:22													
ZZZZZZ			09:26													
ZZZZZZ			09:30													
ZZZZZZ			09:34													
ZZZZZZ			09:37													
ZZZZZZ			09:41													
ZZZZZZ			09:45													
ZZZZZZ			09:48													
CCV 460-122616/163			09:52													
CCB 460-122616/164			09:56													
ZZZZZZ			09:59													
ZZZZZZ			10:03													
ZZZZZZ			10:07													
ZZZZZZ			10:11													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/03/2012 23:59 End Date: 08/04/2012 10:59

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			10:14													
ZZZZZZ			10:18													
ZZZZZZ			10:22													
ZZZZZZ			10:26													
ZZZZZZ			10:29													
ZZZZZZ			10:33													
CCV 460-122616/175			10:37													
CCB 460-122616/176			10:41													
ZZZZZZ			10:44													
ZZZZZZ			10:48													
ZZZZZZ			10:52													
ZZZZZZ			10:56													
ZZZZZZ			10:59													

Prep Types

P = TCLP

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/04/2012 12:39 End Date: 08/04/2012 22:25

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			12:39													
ZZZZZZ			12:42													
ZZZZZZ			12:46													
ZZZZZZ			12:50													
ZZZZZZ			12:53													
ZZZZZZ			12:57													
ICV 460-122646/7	1		13:01	X	X											
ICB 460-122646/8	1		13:04	X	X											
ICSA 460-122646/9	1		13:08	X	X											
ICSAB 460-122646/10	1		13:11	X	X											
ZZZZZZ			13:15													
ZZZZZZ			13:19													
LB 460-122371/1-B ^5	5	P	13:23	X	X											
ZZZZZZ			13:27													
ZZZZZZ			13:30													
ZZZZZZ			13:34													
ZZZZZZ			13:38													
ZZZZZZ			13:41													
CCV 460-122646/19	1		13:45	X	X											
CCB 460-122646/20	1		13:48	X	X											
ZZZZZZ			13:52													
ZZZZZZ			13:56													
ZZZZZZ			13:59													
ZZZZZZ			14:03													
ZZZZZZ			14:06													
ZZZZZZ			14:10													
ZZZZZZ			14:14													
ZZZZZZ			14:18													
ZZZZZZ			14:21													
ZZZZZZ			14:25													
CCV 460-122646/31			14:29													
CCB 460-122646/32			14:32													
ZZZZZZ			14:36													
ZZZZZZ			14:40													
ZZZZZZ			14:43													
ZZZZZZ			14:47													
ZZZZZZ			14:51													
ZZZZZZ			14:54													
ZZZZZZ			14:58													
ZZZZZZ			15:02													
ZZZZZZ			15:05													
ZZZZZZ			15:09													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/04/2012 12:39 End Date: 08/04/2012 22:25

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
CCV 460-122646/43			15:13													
CCB 460-122646/44			15:16													
ZZZZZZ			15:20													
ZZZZZZ			15:23													
ZZZZZZ			15:27													
ZZZZZZ			15:31													
ZZZZZZ			15:34													
ZZZZZZ			15:38													
ZZZZZZ			15:41													
ZZZZZZ			15:45													
ZZZZZZ			15:49													
ZZZZZZ			15:52													
CCV 460-122646/55	1		15:56	X	X											
CCB 460-122646/56	1		15:59	X	X											
ZZZZZZ			16:03													
ZZZZZZ			16:07													
ZZZZZZ			16:10													
ZZZZZZ			16:14													
ZZZZZZ			16:18													
ZZZZZZ			16:21													
460-42952-1	100	P	16:25		X											
460-42952-3	100	P	16:28		X											
ICSA 460-122646/65	1		16:32	X	X											
ICSAB 460-122646/66	1		16:36	X	X											
CCV 460-122646/67	1		16:40	X	X											
CCB 460-122646/68	1		16:43	X	X											
ZZZZZZ			16:47													
ZZZZZZ			16:50													
ZZZZZZ			16:54													
ZZZZZZ			16:58													
ZZZZZZ			17:01													
ZZZZZZ			17:05													
ZZZZZZ			17:08													
ZZZZZZ			17:12													
ZZZZZZ			17:16													
ZZZZZZ			17:19													
CCV 460-122646/79			17:23													
CCB 460-122646/80			17:26													
ZZZZZZ			17:30													
ZZZZZZ			17:34													
ZZZZZZ			17:37													
ZZZZZZ			17:41													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/04/2012 12:39 End Date: 08/04/2012 22:25

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			17:45													
ZZZZZZ			17:48													
ZZZZZZ			17:52													
ZZZZZZ			17:56													
ZZZZZZ			17:59													
ZZZZZZ			18:03													
CCV 460-122646/91			18:06													
CCB 460-122646/92			18:10													
ZZZZZZ			18:14													
ZZZZZZ			18:17													
ZZZZZZ			18:21													
ZZZZZZ			18:24													
ZZZZZZ			18:28													
ZZZZZZ			18:32													
ZZZZZZ			18:35													
ZZZZZZ			18:39													
ZZZZZZ			18:43													
ZZZZZZ			18:46													
CCV 460-122646/103			18:50													
CCB 460-122646/104			18:53													
ZZZZZZ			18:57													
ZZZZZZ			19:01													
ZZZZZZ			19:04													
ZZZZZZ			19:08													
ZZZZZZ			19:11													
ZZZZZZ			19:15													
ZZZZZZ			19:18													
ZZZZZZ			19:22													
ZZZZZZ			19:26													
ZZZZZZ			19:29													
CCV 460-122646/115			19:33													
CCB 460-122646/116			19:36													
ZZZZZZ			19:40													
ZZZZZZ			19:44													
ZZZZZZ			19:48													
ZZZZZZ			19:51													
ZZZZZZ			19:55													
ZZZZZZ			19:58													
ZZZZZZ			20:02													
ZZZZZZ			20:06													
ZZZZZZ			20:09													
ZZZZZZ			20:13													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/04/2012 12:39 End Date: 08/04/2012 22:25

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
CCV 460-122646/127			20:17													
CCB 460-122646/128			20:20													
ZZZZZZ			20:24													
ZZZZZZ			20:27													
ZZZZZZ			20:31													
ZZZZZZ			20:35													
ZZZZZZ			20:38													
ZZZZZZ			20:42													
ZZZZZZ			20:46													
ZZZZZZ			20:49													
ZZZZZZ			20:53													
ZZZZZZ			20:56													
CCV 460-122646/139			21:00													
CCB 460-122646/140			21:03													
ZZZZZZ			21:07													
ZZZZZZ			21:11													
ZZZZZZ			21:14													
ZZZZZZ			21:18													
ZZZZZZ			21:22													
ZZZZZZ			21:26													
ZZZZZZ			21:29													
ZZZZZZ			21:33													
ZZZZZZ			21:37													
ZZZZZZ			21:41													
CCV 460-122646/151			21:44													
CCB 460-122646/152			21:48													
ZZZZZZ			21:52													
ZZZZZZ			21:55													
ZZZZZZ			21:59													
ZZZZZZ			22:03													
ZZZZZZ			22:07													
ZZZZZZ			22:10													
ZZZZZZ			22:14													
ZZZZZZ			22:18													
CCV 460-122646/161			22:22													
CCB 460-122646/162			22:25													

Prep Types

P = TCLP

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/09/2012 10:51 End Date: 08/09/2012 16:43

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			10:51													
ZZZZZZ			10:55													
ZZZZZZ			10:59													
ZZZZZZ			11:02													
ZZZZZZ			11:06													
ZZZZZZ			11:09													
ICV 460-123318/7	1		11:13	X	X											
ICB 460-123318/8	1		11:16	X	X											
ICSA 460-123318/9	1		11:20	X	X											
ICSAB 460-123318/10	1		11:24	X	X											
ZZZZZZ			11:27													
ZZZZZZ			11:31													
ZZZZZZ			11:35													
ZZZZZZ			11:38													
ZZZZZZ			11:42													
ZZZZZZ			11:46													
ZZZZZZ			11:49													
ZZZZZZ			11:53													
CCV 460-123318/19	1		11:56	X	X											
CCB 460-123318/20	1		12:00	X	X											
MB 460-123214/1-A ^2	2	T	12:04	X	X											
LCSSRM 460-123214/2-A ^4	4	T	12:07	X	X											
460-43211-A-1-G DU ^4	4	T	12:11	X	X											
ZZZZZZ			12:14													
460-43211-A-1-F SD ^20	20	T	12:18	X	X											
460-43211-A-1-H MS ^4	4	T	12:22	X	X											
460-43211-A-1-F PDS ^4	4	T	12:25	X	X											
ZZZZZZ			12:29													
ZZZZZZ			12:32													
ZZZZZZ			12:36													
CCV 460-123318/31	1		12:40	X	X											
CCB 460-123318/32	1		12:43	X	X											
ZZZZZZ			12:47													
ZZZZZZ			12:51													
ZZZZZZ			12:54													
ZZZZZZ			12:58													
ZZZZZZ			13:01													
ZZZZZZ			13:05													
ZZZZZZ			13:09													
ZZZZZZ			13:12													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/09/2012 10:51 End Date: 08/09/2012 16:43

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			13:16													
ZZZZZZ			13:19													
CCV 460-123318/43			13:23													
CCB 460-123318/44			13:26													
ZZZZZZ			13:30													
ZZZZZZ			13:34													
ZZZZZZ			13:37													
ZZZZZZ			13:41													
ZZZZZZ			13:45													
ZZZZZZ			13:48													
ZZZZZZ			13:52													
ZZZZZZ			13:55													
ZZZZZZ			13:59													
ZZZZZZ			14:03													
CCV 460-123318/55			14:07													
CCB 460-123318/56			14:10													
ZZZZZZ			14:14													
ZZZZZZ			14:17													
ZZZZZZ			14:21													
ZZZZZZ			14:25													
ZZZZZZ			14:28													
ZZZZZZ			14:32													
ZZZZZZ			14:36													
ZZZZZZ			14:39													
ZZZZZZ			14:43													
ZZZZZZ			14:47													
CCV 460-123318/67	1		14:51	X	X											
CCB 460-123318/68	1		14:54	X	X											
ZZZZZZ			14:58													
ZZZZZZ			15:01													
ZZZZZZ			15:05													
ZZZZZZ			15:09													
ZZZZZZ			15:12													
ZZZZZZ			15:16													
ZZZZZZ			15:20													
ZZZZZZ			15:24													
ZZZZZZ			15:27													
ZZZZZZ			15:31													
CCV 460-123318/79	1		15:35	X	X											
CCB 460-123318/80	1		15:38	X	X											
ZZZZZZ			15:42													
ZZZZZZ			15:45													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/09/2012 10:51 End Date: 08/09/2012 16:43

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			15:49													
ZZZZZZ			15:53													
ZZZZZZ			15:56													
ZZZZZZ			16:00													
ZZZZZZ			16:04													
ZZZZZZ			16:07													
ZZZZZZ			16:11													
ZZZZZZ			16:14													
CCV 460-123318/91	1		16:18	X	X											
CCB 460-123318/92	1		16:21	X	X											
ZZZZZZ			16:25													
ZZZZZZ			16:29													
460-42952-1	50	T	16:33	X	X											
460-42952-2	30	T	16:36	X	X											
CCV 460-123318/97	1		16:40	X	X											
CCB 460-123318/98	1		16:43	X	X											

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/10/2012 10:29 End Date: 08/10/2012 17:15

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			10:29													
ZZZZZZ			10:32													
ZZZZZZ			10:36													
ZZZZZZ			10:40													
ZZZZZZ			10:43													
ZZZZZZ			10:47													
ICV 460-123507/7	1		10:50	X	X											
ICB 460-123507/8	1		10:54	X	X											
ICSA 460-123507/9			10:57													
ICSAB 460-123507/10			11:01													
ZZZZZZ			11:05													
ZZZZZZ			11:09													
ZZZZZZ			11:12													
ZZZZZZ			11:16													
ZZZZZZ			11:20													
ZZZZZZ			11:23													
ICSA 460-123507/17	1		11:27	X	X											
ICSAB 460-123507/18	1		11:31	X	X											
CCV 460-123507/19			11:34													
CCB 460-123507/20			11:38													
ZZZZZZ			11:42													
ZZZZZZ			11:45													
ZZZZZZ			11:49													
ZZZZZZ			11:53													
ZZZZZZ			11:56													
ZZZZZZ			12:00													
ZZZZZZ			12:03													
ZZZZZZ			12:07													
ZZZZZZ			12:11													
ZZZZZZ			12:14													
CCV 460-123507/31	1		12:18	X	X											
CCB 460-123507/32	1		12:21	X	X											
ZZZZZZ			12:25													
ZZZZZZ			12:29													
ZZZZZZ			12:32													
460-43211-A-4-H DU ^4	4	T	12:36	X	X											
ZZZZZZ			12:39													
460-43211-A-4-G SD ^20	20	T	12:43	X	X											
460-43211-A-4-I MS ^4	4	T	12:47	X	X											
460-43211-A-4-G PDS ^4	4	T	12:50	X	X											
ZZZZZZ			12:54													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/10/2012 10:29 End Date: 08/10/2012 17:15

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
LCSSRM 460-123402/2-A ^4	4	T	12:57	X	X											
CCV 460-123507/43	1		13:01	X	X											
CCB 460-123507/44	1		13:04	X	X											
MB 460-123402/1-A ^2	2	T	13:08	X	X											
ZZZZZZ			13:12													
ZZZZZZ			13:15													
ZZZZZZ			13:19													
460-42952-3	20	T	13:22	X	X											
ZZZZZZ			13:26													
ZZZZZZ			13:30													
ZZZZZZ			13:33													
ZZZZZZ			13:37													
ZZZZZZ			13:41													
CCV 460-123507/55	1		13:44	X	X											
CCB 460-123507/56	1		13:47	X	X											
ZZZZZZ			13:51													
ZZZZZZ			13:55													
ZZZZZZ			13:59													
ZZZZZZ			14:02													
ZZZZZZ			14:06													
ZZZZZZ			14:10													
ZZZZZZ			14:13													
ZZZZZZ			14:17													
ZZZZZZ			14:20													
ZZZZZZ			14:24													
CCV 460-123507/67			14:28													
CCB 460-123507/68			14:31													
ZZZZZZ			14:35													
ZZZZZZ			14:39													
ZZZZZZ			14:42													
ZZZZZZ			14:46													
ZZZZZZ			14:50													
ZZZZZZ			14:54													
ZZZZZZ			14:57													
ZZZZZZ			15:01													
ZZZZZZ			15:05													
ZZZZZZ			15:08													
CCV 460-123507/79			15:12													
CCB 460-123507/80			15:15													
ZZZZZZ			15:19													
ZZZZZZ			15:23													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010B

Start Date: 08/10/2012 10:29 End Date: 08/10/2012 17:15

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				A s	P b											
ZZZZZZ			15:26													
ZZZZZZ			15:30													
ZZZZZZ			15:34													
ZZZZZZ			15:37													
ZZZZZZ			15:41													
ZZZZZZ			15:45													
ZZZZZZ			15:48													
ZZZZZZ			15:52													
CCV 460-123507/91			15:55													
CCB 460-123507/92			15:59													
ZZZZZZ			16:03													
ZZZZZZ			16:06													
ZZZZZZ			16:10													
ZZZZZZ			16:13													
ZZZZZZ			16:17													
ZZZZZZ			16:20													
ZZZZZZ			16:24													
ZZZZZZ			16:28													
ZZZZZZ			16:31													
ZZZZZZ			16:35													
CCV 460-123507/103			16:39													
CCB 460-123507/104			16:42													
ZZZZZZ			16:46													
ZZZZZZ			16:49													
ZZZZZZ			16:53													
ZZZZZZ			16:57													
ZZZZZZ			17:00													
ZZZZZZ			17:04													
ZZZZZZ			17:08													
CCV 460-123507/112			17:11													
CCB 460-123507/113			17:15													

Prep Types

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.:

Batch Number: 122189 Batch Start Date: 08/01/12 17:30 Batch Analyst: Hu, Youhao

Batch Method: 1311 Batch End Date: 08/02/12 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	EFD_InitialpH	InitialRoomTemp	FinalRoomTemp	VesselNumber	FiltCompDate
LB 460-122189/1		1311, 3010A, 6010B		2000 mL	4.91 SU	22.5 Celsius	23 Celsius	EH28	08/02/12

Lab Sample ID	Client Sample ID	Method Chain	Basis	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment		
LB 460-122189/1		1311, 3010A, 6010B		0935	4.97 SU	TF1073112	TCLP Fluid #1 Prep on 07/31/12, Exp 1/31/13; pH measured on 08/02/12 @ 1130		

Batch Notes

Balance ID	13
Batch Comment	min temp = 21.0C max temp = 23.0C; 1N HCl: TCLP 752 exp: 12/15/12
pH Meter ID	F
TCLP Fluid 1 ID	TF1073112 prep: 7/31/12 exp: 1/31/13
ID number of the thermometer	7958
Tumbler Rotations per Minute	29

Basis	Basis Description

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.:

Batch Number: 122371 Batch Start Date: 08/02/12 17:30 Batch Analyst: Hu, Youhao

Batch Method: 1311 Batch End Date: 08/03/12 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	InitialRoomTemp	FinalRoomTemp
LB 460-122371/1		1311, 3010A, 6010B			2000 mL	4.88 SU		22 Celsius	22 Celsius
460-42952-A-1	SB 163-J1	1311, 3010A, 6010B	P	100.32 g	2000 mL	6.97 SU	1.78	22 Celsius	22 Celsius
460-42952-A-2	SB 159-B1	1311, 3010A, 6010B	P	100.21 g	2000 mL	5.18 SU	1.76	22 Celsius	22 Celsius
460-42952-A-3	SB 147-AG1	1311, 3010A, 6010B	P	100.02 g	2000 mL	4.20 SU		22 Celsius	22 Celsius

Lab Sample ID	Client Sample ID	Method Chain	Basis	VesselNumber	FiltCompDate	FiltCompTime	LeachatepH	ExtractFluid	AnalysisComment
LB 460-122371/1		1311, 3010A, 6010B		EH19	08/03/12	0930	4.93 SU	TF1080212	TCLP Fluid #1 Prep on 08/02/12, Exp 2/2/13; pH measured on 08/03/12 @1230
460-42952-A-1	SB 163-J1	1311, 3010A, 6010B	P	EH15	08/03/12	0935	5.48 SU	TF1080212	TCLP Fluid #1 Prep on 08/02/12, Exp 2/2/13; pH measured on 08/03/12 @1230
460-42952-A-2	SB 159-B1	1311, 3010A, 6010B	P	EH12	08/03/12	0940	5.00 SU	TF1080212	TCLP Fluid #1 Prep on 08/02/12, Exp 2/2/13; pH measured on 08/03/12 @1231
460-42952-A-3	SB 147-AG1	1311, 3010A, 6010B	P	EH34	08/03/12	0945	4.96 SU	TF1080212	TCLP Fluid #1 Prep on 08/02/12, Exp 2/2/13; pH measured on 08/03/12 @1231

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Batch Number: 122371

Batch Start Date: 08/02/12 17:30

Batch Analyst: Hu, Youhao

Batch Method: 1311

Batch End Date: 08/03/12 09:30

Batch Notes	
Balance ID	13
Batch Comment	min temp = 21.0C max temp = 23.0C; 1N HCl: TCLP 752 exp: 12/15/12
pH Meter ID	F
TCLP Fluid 1 ID	TF1080212 prep: 8/2/12 exp: 2/2/13
ID number of the thermometer	7958
Tumbler Rotations per Minute	29

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.:

Batch Number: 122432 Batch Start Date: 08/03/12 08:03 Batch Analyst: Yang, Qin

Batch Method: 3010A Batch End Date: 08/03/12 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_TCLPspk 00014			
MB 460-122432/1		3010A, 6010B		50 mL	50 mL				
LCS 460-122432/2		3010A, 6010B		50 mL	50 mL	0.5 mL			
460-42910-A-3-C DU		3010A, 6010B	P	50 mL	50 mL				
460-42910-A-3-C MS		3010A, 6010B	P	50 mL	50 mL	0.5 mL			
LB 460-122189/1-A		3010A, 6010B		50 mL	50 mL				
460-42952-A-1-A	SB 163-J1	3010A, 6010B	P	50 mL	50 mL				
460-42952-A-2-A	SB 159-B1	3010A, 6010B	P	50 mL	50 mL				
460-42952-A-3-A	SB 147-AG1	3010A, 6010B	P	50 mL	50 mL				
LB 460-122371/1-A		3010A, 6010B		50 mL	50 mL				

Batch Notes

Batch Comment	1:1 HCL LOT MPR 206
First End time	13:00
Filter Paper Lot Number	09-790F
Lot # of Nitric Acid	L03021
Hot Block ID number	4
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	31
First Start time	10:30
ID number of the thermometer	3
Digestion Tube/Cup Lot #	1111173

Basis	Basis Description
P	TCLP

6010B

Page 1 of 1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.:

Batch Number: 123214

Batch Start Date: 08/09/12 07:26

Batch Analyst: Chen, Mandi

Batch Method: 3050B

Batch End Date: 08/09/12 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int_00031	ME_LCSS_77_00001	
MB 460-123214/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-123214/2		3050B, 6010B		CALC NOT SET TO RUN	1.02 g	50 mL		1 g	
460-43211-A-1 DU		3050B, 6010B	T	CALC NOT SET TO RUN	1.08 g	50 mL			
460-43211-A-1 MS		3050B, 6010B	T	CALC NOT SET TO RUN	1.07 g	50 mL	2 mL		
460-42952-A-1	SB 163-J1	3050B, 6010B	T	CALC NOT SET TO RUN	1.06 g	50 mL			
460-42952-A-2	SB 159-B1	3050B, 6010B	T	CALC NOT SET TO RUN	1.09 g	50 mL			

Batch Notes	
Balance ID	35
Hydrogen peroxide lot number	K45J00
Lot # of hydrochloric acid	L02A02
Logbook ID for diluted Nitric	MPR197
Lot # of Nitric Acid	L03021
Hood ID or number	8
Hot Block ID number	1
Pipette ID	25
Temperature	95 Degrees C
ID number of the thermometer	ICP-2
Digestion Tube/Cup Lot #	143136263

Basis	Basis Description
T	Total/NA

6010B

Page 1 of 1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Batch Number: 123402

Batch Start Date: 08/10/12 04:13

Batch Analyst: Chen, Mandi

Batch Method: 3050B

Batch End Date: 08/10/12 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int_00031	ME_LCSS_77_00001	
MB 460-123402/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-123402/2		3050B, 6010B		CALC NOT SET TO RUN	1.02 g	50 mL		1 g	
460-43211-A-4 DU		3050B, 6010B	T	CALC NOT SET TO RUN	1.07 g	50 mL			
460-43211-A-4 MS		3050B, 6010B	T	CALC NOT SET TO RUN	1.06 g	50 mL	2 mL		
460-42952-A-3	SB 147-AG1	3050B, 6010B	T	CALC NOT SET TO RUN	1.08 g	50 mL			

Batch Notes

Balance ID	35
Hydrogen peroxide lot number	K45J00
Lot # of hydrochloric acid	L02A02
Logbook ID for diluted Nitric	MPR197
Lot # of Nitric Acid	L03021
Hood ID or number	8
Hot Block ID number	1
Pipette ID	25
Temperature	95 Degrees C
ID number of the thermometer	ICP-2
Digestion Tube/Cup Lot #	143136263

Basis	Basis Description
T	Total/NA

6010B

Page 1 of 1

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-42952-1

SDG No.: _____

Project: Dow Philly Plant

Client Sample ID
SB 163-J1
SB 159-B1
SB 147-AG1

Lab Sample ID
460-42952-1
460-42952-2
460-42952-3

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 460-42952-1

SDG Number: _____

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 460-42952-1

SDG Number: _____

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/01/2012 14:42 End Date: 08/01/2012 14:42

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				% S o l	M o i s t											
ZZZZZZ			14:42													
ZZZZZZ			14:42													
ZZZZZZ			14:42													
ZZZZZZ			14:42													
ZZZZZZ			14:42													
ZZZZZZ			14:42													
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ZZZZZZ			14:42													
ZZZZZZ			14:42													
ZZZZZZ			14:42													
ZZZZZZ			14:42													
460-42952-1	1	T	14:42	X	X											
460-42952-2	1	T	14:42	X	X											
460-42952-2 DU	1	T	14:42	X	X											

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-42952-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/01/2012 15:54 End Date: 08/01/2012 15:54

Lab Sample ID	D / F	T Y p e	Time	Analytes												
				% S o l	M o i s t											
460-42952-3	1	T	15:54	X	X											
ZZZZZZ			15:54													
ZZZZZZ			15:54													
ZZZZZZ			15:54													
ZZZZZZ			15:54													
ZZZZZZ			15:54													
ZZZZZZ			15:54													
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ZZZZZZ			15:54													
ZZZZZZ			15:54													
ZZZZZZ			15:54													
ZZZZZZ			15:54													
460-42968-A-7 DU	1	T	15:54	X	X											

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.:

Batch Number: 122163

Batch Start Date: 08/01/12 14:42

Batch Analyst: Armbruster, Chris

Batch Method: Moisture

Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-42952-A-1	SB 163-J1	Moisture	T	40	1.00 g	6.44 g	5.33 g		
460-42952-A-2	SB 159-B1	Moisture	T	41	1.02 g	6.76 g	5.54 g		
460-42952-A-2 DU	SB 159-B1	Moisture	T	42	1.00 g	6.71 g	5.49 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	08/01/12
Oven Temp when samples are put in oven	Oven-1 104, Oven-2 104 Degrees C
Time samples were place in the oven	15:32
Date samples were removed from oven	08/02/12
Oven Temp when samples removed from oven	Oven-1 105, Oven-2 105 Degrees C
Time Samples were removed from oven	11:10
Oven ID	1, 2
ID number of the thermometer	C4350, 2935
Uncorrected In Temperature	None Celsius
Uncorrected Out Temperature	None Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 460-42952-1

SDG No.: _____

Batch Number: 122175 Batch Start Date: 08/01/12 15:54 Batch Analyst: Armbruster, Chris

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-42952-A-3	SB 147-AG1	Moisture	T	43	1.02 g	6.26 g	5.20 g		
460-42968-A-7 DU		Moisture	T	63	1.01 g	6.36 g	4.98 g		

Batch Notes

Balance ID	104 No Unit
Date samples were placed in the oven	08/01/12
Oven Temp when samples are put in oven	Oven-1 104, Oven-2 104 Degrees C
Time samples were place in the oven	16:24
Date samples were removed from oven	08/02/12
Oven Temp when samples removed from oven	Oven-1 105, Oven-2 105 Degrees C
Time Samples were removed from oven	11:10
Oven ID	1, 2
ID number of the thermometer	C4350, 2935
Uncorrected In Temperature	None Celsius
Uncorrected Out Temperature	None Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) Geoff Arbogast	Samplers Name (Printed) Dan Philly Phant
Company JRS	P. O. # 4600 875
Address 335 Commerce Drive	Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>
City Fort Washington	ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)
State PA	Sample Numbers
Phone 215-367-2500	Job No: 460-42952
Fax	

Sample Identification	Date	Time	Matrix	No. of Cont.	(AS, Pd, Pb)
SB 163-J1	7/18/12	14:45	SO	1	X X
SB 159-B1	7/18/12	14:50	SO	1	X X
SB 147-AG1	7/18/12	15:00	SO	1	X X

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH

Soil:
Water:

6 = Other _____

7 = Other _____

Water Metals Filtered (Yes/No)?

Special Instructions					
Relinquished by Hector Huang	Company JRS	Date / Time 7/18/12 16:00	Received by F. Hall	Company TJ	
Relinquished by R. Murphy	Company JRS	Date / Time 7/20 11:00	Received by John Murphy	Company Test America	
Relinquished by J. Murphy	Company JRS	Date / Time 7/30 11:50	Received by John Murphy	Company Test America	
Relinquished by J. Murphy	Company JRS	Date / Time 7/30 11:50	Received by John Murphy	Company Test America	
4)					

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NU312), North Carolina (No. 578)

Cust# 80265

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 460-42952-1

Login Number: 42952

List Source: TestAmerica Edison

List Number: 1

Creator: Lysy, Susan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	580265
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6°C IR#50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.